VERMONT Castings

VENT FREE GAS HEATER OWNER'S GUIDE

Models UVS27R & UVS27M

INSTALLATION, OPERATION AND MAINTENANCE PROCEDURES

for use with
STARDANCE FREESTANDING STOVE SHELL
OR
PINNACLE HEARTHMOUNT STOVE SHELL

Tested and listed to ANSI Z21.11.2a 1997 by International Approval Services.

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, injury or loss of life.

Do not store gasoline or other flammable vapors or liquids near this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

- **Shut off all gas to the appliance.**
- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the supplier's instructions.**
- **If you cannot reach the gas supplier, phone the fire department.**

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

THIS IS AN UNVENTED GAS-FIRED HEATER. IT USES AIR (OXYGEN) FROM THE ROOM IN WHICH IT IS INSTALLED. PROVISIONS FOR ADEQUATE COMBUSTION AND VENTILATION AIR MUST BE PROVIDED.

DESIGN CERTIFIED

SAVE THIS MANUAL FOR FUTURE REFERENCE

30000468h / 0601

Attention Consumer:

In order to ensure safe and effective installation, this unit must be installed only by a qualified agency, individual, firm, corporation or company that is experienced in the installation, repair and servicing of this type of appliance and is familiar with the building codes and installation techniques appropriate in your area. Contact your hearth products dealer or local gas supplier for the name of a qualified service person.

Installer:

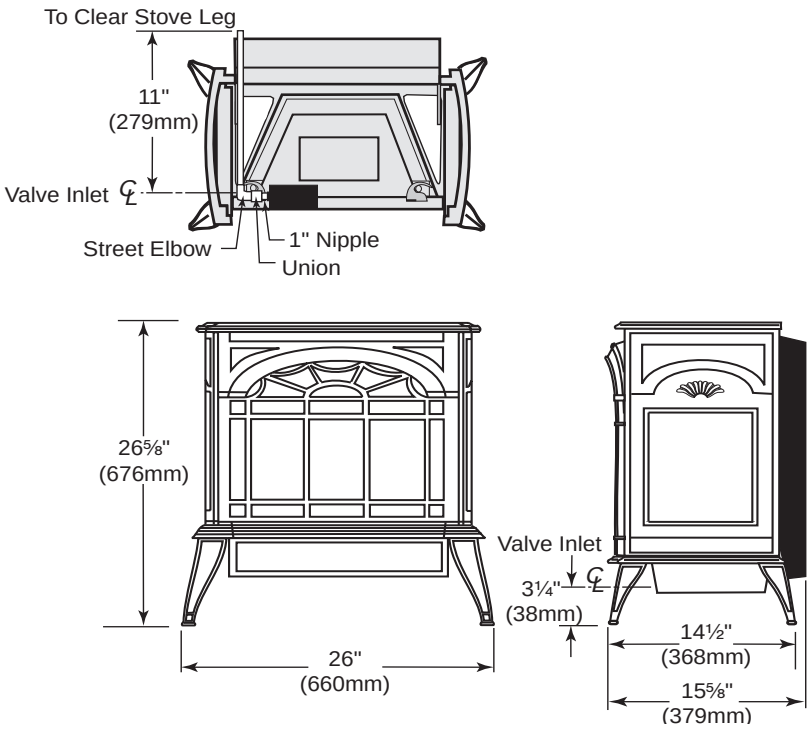
Please read this manual carefully before you begin the installation procedures. Failure to follow instructions may result in property damage, bodily injury or loss of life. This manual contains important user information. Keep this manual with the fireplace after installation is complete.

Table of Contents

Specifications 3
Installation Requirements 6
Assembly Procedures .....
Operation 13
Maintenance 16
Illustrated Part Lists 20

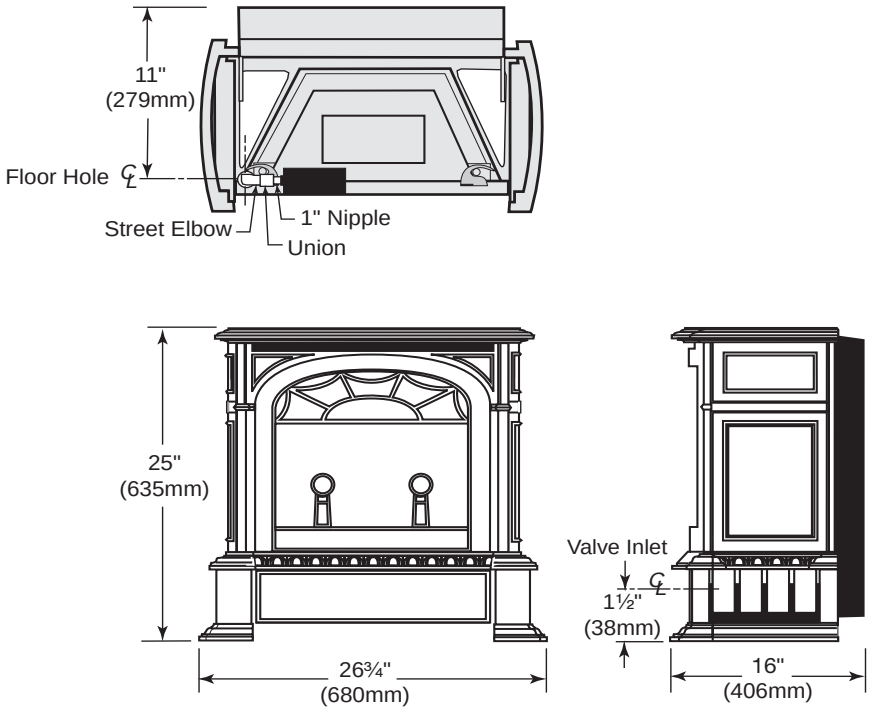
Shell Dimensions

Freestanding Stove



0468

Hearthmount



0468a

DRAWINGS NOT TO SCALE

Safety Information

WARNINGS

IMPORTANT: READ THIS OWNER'S MANUAL CAREFULLY AND COMPLETELY BEFORE TRYING TO ASSEMBLE, OPERATE OR SERVICE THIS HEATER. IMPROPER USE OF THIS HEATER CAN CAUSE SERIOUS INJURY OR DEATH FROM BURNS, FIRE, EXPLOSION, ELECTRICAL SHOCK AND CARBON MONOXIDE POISONING.

DANGER

CARBON MONOXIDE POISONING MAY LEAD TO DEATH!

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the heater may not be working properly. Get fresh air at once! Have the heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes.

Make certain you read and understand all Warnings. Keep this manual for reference. It is your guide to safe and proper operation of this heater.

1. **Use only Natural Gas with UVS27RN or UVS27MN. Use only Propane with UVS27RP or UVS27MP. Do not use any other fuels.**
2. **Install only in accordance with the National Fuel Gas Code, ANSIZ223.1-latest edition.**
3. **Use only the installation instructions provided by the manufacturer for this appliance. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean.**
4. **Warning: Any change to this heater or its controls can be dangerous. DO NOT make modifications to any heater or associated parts.**
5. **DO NOT install this heater in a bedroom or bathroom.**
6. **Due to high surface temperatures, DO NOT install this heater**
   - **in a recreational vehicle,**
   - **where curtains, furniture, clothing or other flammable objects are less than 36 inches from the front, top or sides of the heater,**
   - **in high traffic areas,**
   - **in windy or drafty areas.**
7. **DO NOT place clothing or other flammable material on or near the appliance.**
8. **DO NOT obstruct the top grille at all. Doing so will cause high levels of carbon monoxide that will lead to death.**
9. **This heater needs fresh, outside air ventilation to operate properly. See Fresh Air Requirements on pages 6 and 7.**
10. **If heater shuts off, heater may not have enough fresh air ventilation. Provide more fresh air. If heater keeps shutting off, see *Troubleshooting* pages 17-18.**
11. **DO NOT operate this heater**
    - **where flammable liquids or vapors are used or stored**
    - **under dusty conditions.**
12. **The heater becomes very hot when operating. Alert children and adults to stay away from hot surfaces to avoid burns or clothing ignition. The heater will remain hot for a time after shutdown. Allow surface to cool before touching.**
13. **Carefully supervise young children when they are in the room with the heater.**
14. **Do not use the heater if any part has been exposed to or under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.**
15. **DO NOT operate the heater if any log is broken or damaged.**
16. **Turn heater off and let cool before servicing. Only a qualified service person should service and repair heater.**
17. **DO NOT operate this appliance with the safety screen removed. If the safety screen is removed from the appliance for service or cleaning, it must be replaced before operating the heater.**

High Altitude Derating

Input ratings are shown in BTU per hour and are for elevations up to 4,500 feet (1370m). For elevations above 4,500 feet (1370m) consult local building codes. Nuisance outages may occur at altitudes above 4,500 feet (1370m) if dirt, dust, lint and/or cobwebs are allowed to accumulate on burner and/or ODS pilot. Monthly inspection and cleaning is recommended for altitudes above 4,500 feet (1370m)

General Information

Vent Free Features

The UVS27R and UVS27M Gas Heaters are unvented gas appliances tested and listed to the ANSI standard Z21.11.2a-1997. The Vent Free Gas Heater is configured to use Natural Gas, (UVS27RN and UVS27MN) or Propane (UVS27RP and UVS27MP). Because these heaters are clean-burning and highly energy-efficient, no venting system is required.

The firebox is shipped completely assembled and ready for installation with either the Stardance (SUV) or the Pinnacle (PUV) shell assemblies.

The firebox assembly is composed of the NG or LP Burner, a base plate, firebox and screen. The log set, burner tube, gas valve and pilot comprise the Burner assembly. (Fig. 1)

The UVS27M is equipped with SIT control for manual use only.

The UVSR is equipped with a Honeywell control valve that allows thermostatic control, on/off switch or a remote switch (not supplied).

Both models incorporate variable regulators that allow you to adjust burner heat output between HIGH, (28,000 BTU), and LOW, (19,500 BTU). See the Operation Section for details.

The standing pilot incorporates an Oxygen Depletion System (ODS/pilot) which shuts off gas flow to the

Unpack the Firebox

Remove the firebox assembly from the shipping carton and inspect it for loose or damaged parts. The burner, firebox and base plate should all be secured as a unit. Do not install this appliance if any parts are loose or if there is any visual or suspected damage resulting from shipping or handling. Report damage to your dealer/ distributor immediately. The log set is packaged in the box shipped inside the firebox.

To remove the packaged log set from the firebox, swing the cam latch outward, remove the screen frame, remove box and set aside. Contact your dealer if the burner is loose or damaged in any way.

UVS27 Specifications

	UVSRN UVSMN	UVSRP UVSMP
Fuel	NG	LP
Manifold Pressure Min./Max.	1.7”/3.5”	5.4”/11.0” (RP) 4.4”/10.0” (MP)
Min. Inlet Supply Pressure for adjustment:	5.0” w.c.	11.0”w.c.
Max. Inlet Supply Pressure for adjustment:	8.0”w.c.	12.0”w.c.
Min. Output, BTU/hr:	19,500	19,500
Max. Output, BTU/hr:	28,000	28,000
Ignition:	Piezo	
Firebox Weight/shipping:	110 lbs.	

Optional Accessories

- Fan Kit 2960/FK28 is available to enhance circulation of heated air into the living areas.
- Glass Panel / Catalytic Combustor Kit UVGDCK
- Warming Shelf; Classic and all porcelain enamel colors.

This appliance may be installed in an aftermarket* manufactured (mobile) home, where not prohibited by state or local codes.

This appliance is only for use with the type of gas indicated on the Rating Plate. This appliance is not convertible for use with other gasses.

*Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.

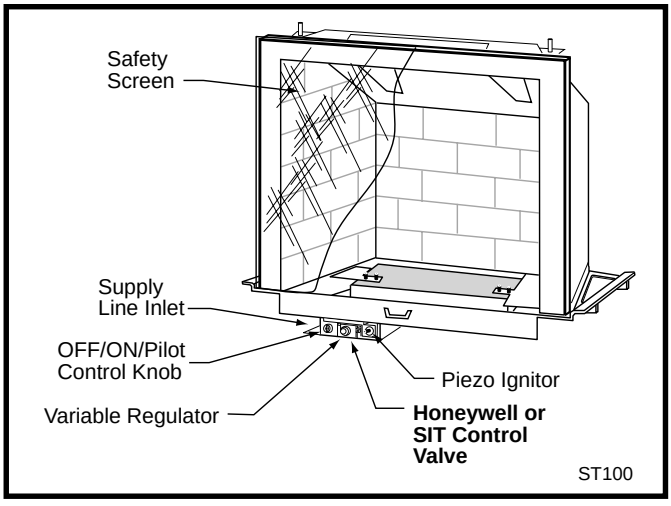


Fig. 1 UVS27 gas firebox.

Installation Requirements

Fresh Air Requirements for Combustion and Ventilation

WARNING

THIS HEATER MUST HAVE FRESH AIR FOR PROPER OPERATION. IF IT DOES NOT, POOR FUEL COMBUSTION COULD RESULT. READ THE FOLLOWING INSTRUCTIONS TO ENSURE PROPER FRESH AIR SUPPLY FOR THIS AND OTHER FUEL-BURNING APPLIANCES IN YOUR HOME.

Modern construction standards have resulted in homes that are highly energy-efficient and that allow little heat loss. Your home needs to breathe, however, and all fuel-burning appliances need fresh air to function properly and safely. Exhaust fans, clothes dryers, fireplaces and other fuel burning appliances use the air inside the building. If the available fresh air supply is insufficient to meet the demands of these appliances, problems can result.

The UVS27R and UVS27M heaters have specific fresh air requirements. You must determine that these requirements will be met within the space where the appliance will be installed. The following information will help you insure adequate fresh air is available for the heater to function properly.

Provide for Adequate Ventilation

Any space within a home can be classified in these categories:

1) Unusually tight construction
2) Confined space
3) Unconfined space

First, determine which classification defines the intended installation space.

Unusually Tight Construction

You must provide additional fresh air if the space falls into this classification. *Unusually Tight Construction* is defined as construction wherein:

a. Walls and ceilings exposed to the outside atmosphere have a continuous water vapor barrier with a rating of one perm or less, with openings gasketed or sealed, *and*

b. weather stripping has been added on openable windows and doors *and*

c. caulking or sealants are applied to areas such as joints around windows and door frames, between sole plates and floors, between wall and ceiling joints, between wall panels, at penetrations for plumbing, electrical and gas lines and at all other openings.

If your home meets all of the above criteria, you must provide additional fresh air for the appliance as detailed on Page 7.

If your home does not meet the above criteria, follow the procedure below.

Determine If You Have a Confined or Unconfined Space

Use the following formula to determine if you have a confined or unconfined space.

Space is defined as the room in which you will install the heater, plus any adjoining rooms with doorless passageways or ventilation grilles between the rooms.

The National Fuel Gas Code defines a *confined space* as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour input rating (4.8m^3 per Kw) of the aggregate (total) input rating of all appliances installed in that space and an *unconfined space* as a space whose volume is not less than 50 cubic feet per 1,000 BTU per hour (4.8m^3 per Kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

1. Determine the volume of space (length x width x height). Include adjoining rooms connected by doorless passageways or ventilating grilles.

Example: A room that is 18’ x 12’ x 8’ has a volume of 1728 cubic feet. An adjoining open kitchen that is 10’ x 12’ x 8’ has a volume of 960 cubic feet. An adjoining open dining room is 12’ x 12’ x 8’ with a volume of 1152 cubic feet. The total volume is 3840 feet. (1728 + 960 + 1152)

2. Divide the volume of space by 50 cubic feet. The result is the maximum BTU/hour the space can support.

Example: 3840 cubic feet divided by 50 = 76.8 or 76,800 BTU/hour.

3. Add the BTU/hour ratings of all fuel-burning appliances installed in the same space, including the following:

Gas Water Heater	Gas Furnace
Gas Fireplace Logs	Vent-free Gas Heater
Vented Gas Heater*	Other Gas Appliances*

**Do not include Direct-vent appliances as these use outdoor air for combustion and vent to the outdoors.*

Example:

Gas Range	55,000 BTU/hour
Vent-free Logset	+25,000 BTU/hour
Total	80,000 BTU/hour

4. Compare the maximum BTU/hour rating the space can support with the total BTU/hour used by the appliances.

Example: 76,800 BTU/hour the space can support
80,000 BTU/hour used by appliances

In this example, the maximum BTU/hour that the space can support is less than the total used by the appliances. The space is considered to be *Confined Space.*

Additional air must be provided to meet the requirements of the vent-free heater.

A confined space may be ventilated in two ways:

A. Open or provide at least two ventilating grilles to an adjoining unconfined space. (Fig. 2)

Each of the two grilles must provide an opening of at least 50 square inches, with all opening dimensions being at least 3". One grille must be within 12" of the ceiling; the other within 12" of the floor. (If the total exceeds 100,000 BTU/hour, additional grilles will be needed.)

B. Vent the room directly to the outdoors. (Provide one square inch of opening for each 4,000 BTU/hour)

For further information on ventilation guidelines and sizing specifications, follow the National Fuel Gas Code/NFPA 54/ANSI Z223.1, Section 5.3.

If the total BTU/hour used by the appliances is less than the maximum BTU/hr the space can support, the room meets the *Unconfined Space* criteria and no further ventilation is needed.

WARNING

THIS HEATER SHALL NOT BE INSTALLED IN A CONFINED SPACE UNLESS PROVISIONS ARE MADE FOR ADEQUATE COMBUSTION AND VENTILATION AIR.

WARNING

IF THE AREA IN WHICH THE HEATER MAY BE OPERATED IS SMALLER THAN THAT DEFINED AS AN UNCONFINED SPACE, PROVIDE ADEQUATE COMBUSTION AND VENTILATION AIR BY ONE OF THE METHODS DESCRIBED IN THE NATIONAL FUEL GAS CODE, ANSI Z223.1, 1992 SECTION 5.3,.

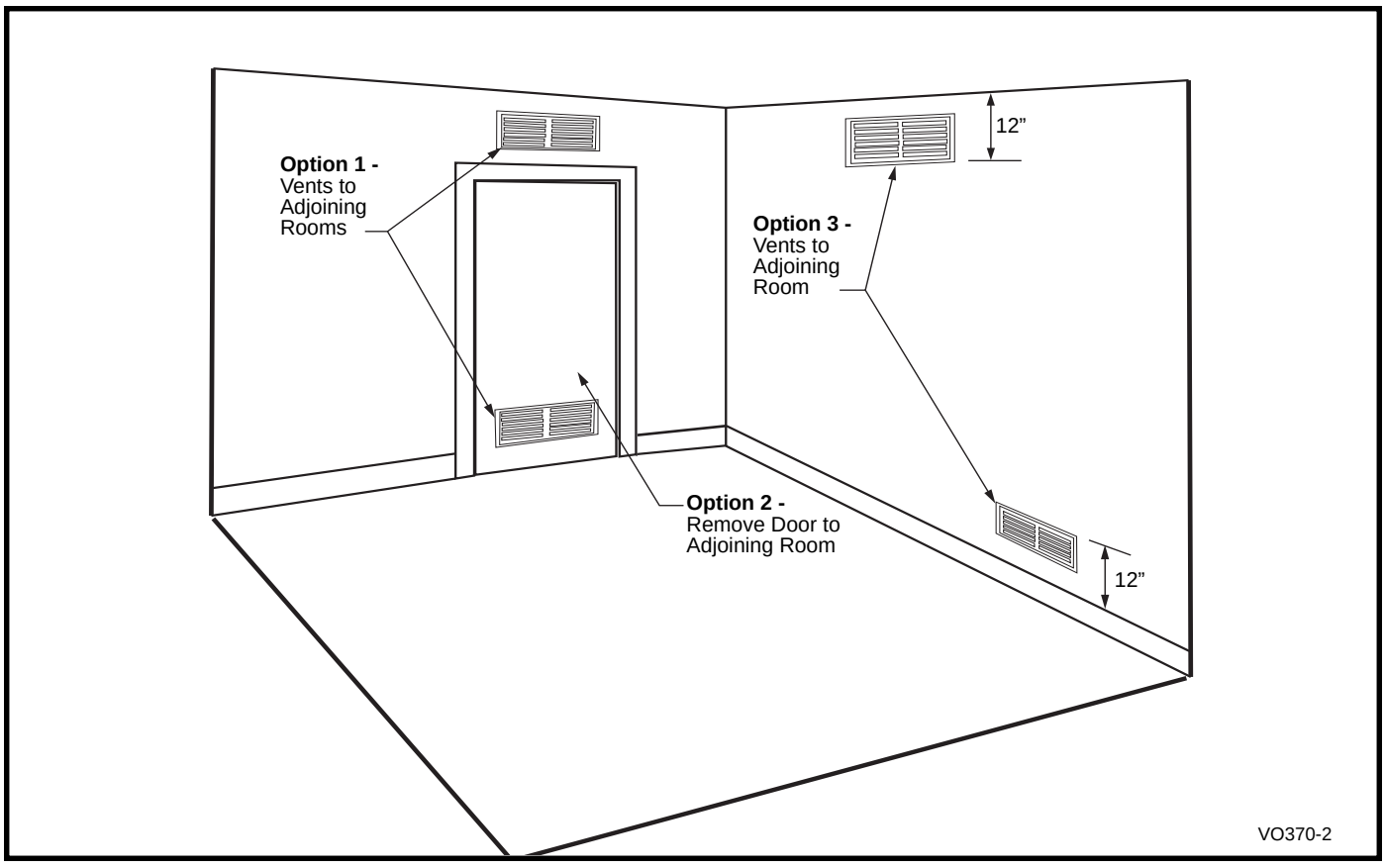


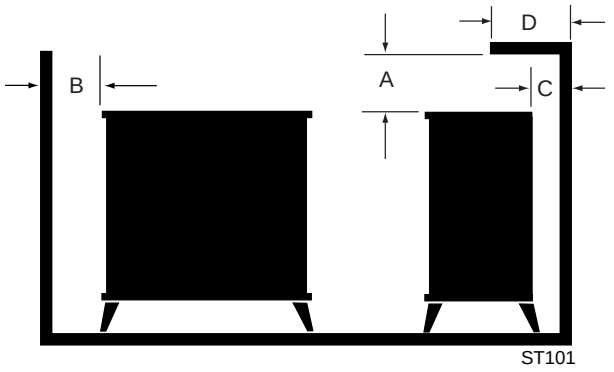
Fig. 2 Supplementing ventilation air.

Clearance Requirements

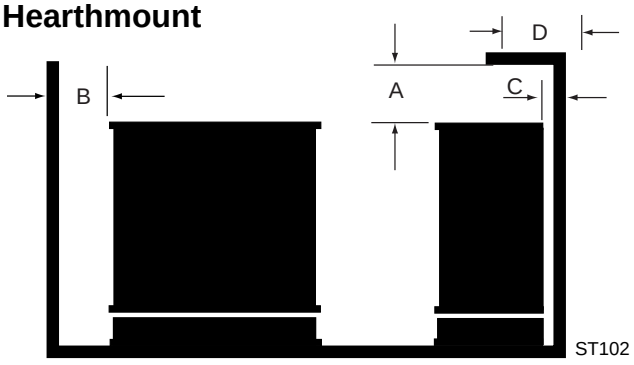
Minimum Clearances to Combustible Materials

Maintain clearance, (empty space), between combustible materials and the heater as specified for the appropriate firebox shell being installed.

Freestanding Stove

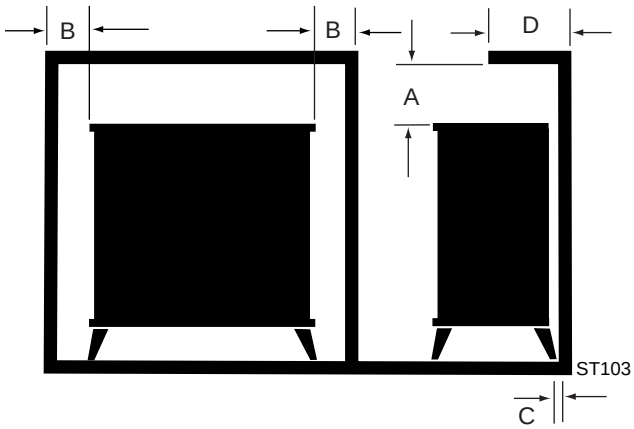


Hearthmount



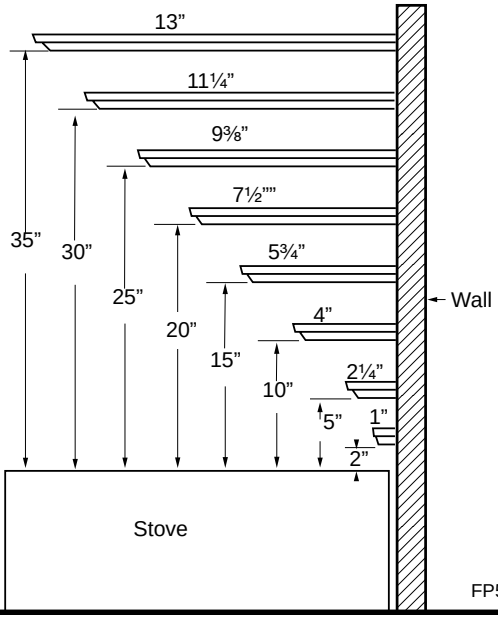
A: Mantel/Trim* ..... 35”/2” C: Rear Wall ..... 0”
B: Side Wall/Trim* ..... 2” D: Max. Mantel Width .. 13”
* Trim is 1” thick maximum

Alcove Clearances



A: Ceiling ..... 35” C: Rear Wall ..... 0”
B: Side Wall ..... 2” D: Max. Alcove Depth .... 13”

Mantel Clearances- Freestanding and Hearthmount



UVS27R/UVS27M Hearth Requirements

The Freestanding Stove and Hearthmount Shell must be installed on rigid flooring. If the appliance is installed on any combustible surface other than wood flooring, such as carpet or tile, a metal or wood panel must be installed to extend the full length and width of the unit.

WARNING

- **DO NOT INSTALL THIS HEATER IN A BATHROOM OR BEDROOM.**
- **INSTALLATION OF THIS HEATER MUST CONFORM WITH LOCAL CODES OR, IN THE ABSENCE OF LOCAL CODES, WITH THE NATIONAL FUEL GAS CODE, ANSI Z223.1.**
- **THIS HEATER CREATES WARM AIR CURRENTS. THESE CURRENTS MOVE HEAT TO WALL SURFACES NEXT TO THE HEATER. INSTALLING THE HEATER NEXT TO VINYL OR CLOTH WALL COVERINGS OR OPERATING THE HEATER WHERE IMPURITIES IN THE AIR SUCH AS TOBACCO SMOKE EXIST, MAY DISCOLOR WALLS.**
- **DO NOT USE A BLOWER INSERT, HEAT EXCHANGER INSERT OR OTHER ACCESSORY NOT APPROVED FOR USE WITH THIS HEATER.**

Assembly Procedures

Refer to the specific assembly instructions for the shell appropriate to your UVS27R or UVS27M Heater installation.

NOTE: If you intend to hard-plumb the gas supply line to the burner, you may wish to install the union or elbow at the burner control valve inlet before installing the firebox within the shell.

Also, install the optional Fan Kit on the Freestanding or Hearthmount before proceeding with this assembly. Follow the instructions included with the kit.

WARNING

FAILURE TO POSITION THE PARTS IN ACCORDANCE WITH THESE DIAGRAMS OR FAILURE TO USE ONLY PARTS SPECIFICALLY APPROVED FOR USE WITH THIS HEATER MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY.

CAUTION

Porcelain enamelled surfaces are fragile. Handle porcelain enamelled castings tenderly. Familiarize yourself with the assembly steps before you begin and proceed with deliberation and care. If possible, have assistance available.

Place enamelled castings on a soft, cushioned surface until you are ready to assemble.

Avoid contact between the castings and other hard surfaces or objects.

Shell / Firebox Assembly

1. Assemble side heat shields to both sides of the back shroud using two (2) sheet metal screws per side. (Fig. 3) Heat shields are found in the Owner's Manual bag assembly.
2. Attach the Back Panel to the Left Side Plate by aligning the key holes in the shroud with the bolts in the Side. (Fig. 3) Slide the shroud panel downward to engage it behind all three washers on the side plate and then tighten the upper and lower wingbolt.
3. Attach the Right Side Plate to the Back Panel in a similar manner. Tighten the upper and lower wingbolt. (Fig. 4) Move this assembly into the final position and align the two side plates perpendicular to the Back Panel as in Figure 5.

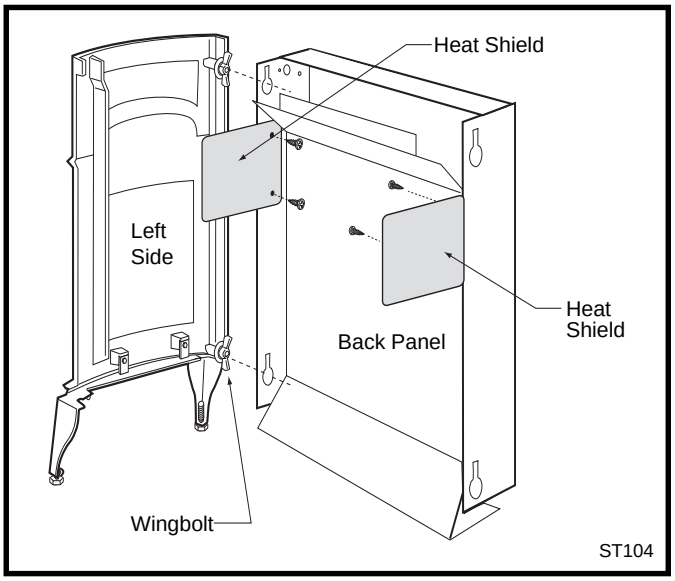


Fig. 3 Secure Left Side to the Back Panel.

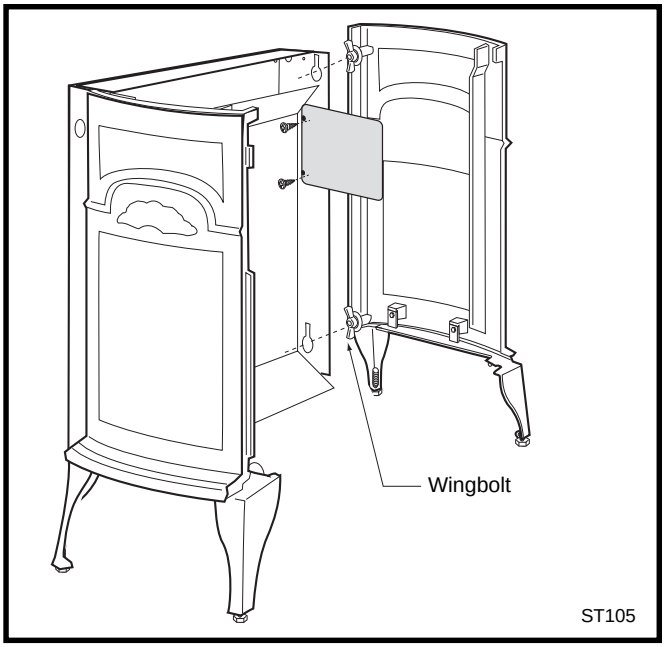


Fig. 4 Secure Right Side to the Back Panel.

4. The Firebox is completely assembled. The Burner and Valve assembly require no adjustment, however, be sure to remove the packaged logs from within the firebox. If you have not yet done so, swing the two cam latches outward on the screen frame to release it from the unit. Remove the screen frame by lifting up and away from firebox. Remove the box of logs from inside the unit and set aside for later log placement.
5. Connect the gas supply line to the burner control valve before you install the firebox. This may be a flexible line, (not supplied), or hard plumbing.
6. Lift the firebox assembly as a unit and slide it back to position it within the shell. The base of the firebox should rest on the side support shelves as in Figures 5 and 6. The side plates interlock with the firebox by use of a pair of steel tabs that engage with the ribs on the base of the firebox. (Fig. 6) Properly positioned, the firebox will be level and locked in place. If not, adjust the levelling screws as required to keep the entire assembly level.

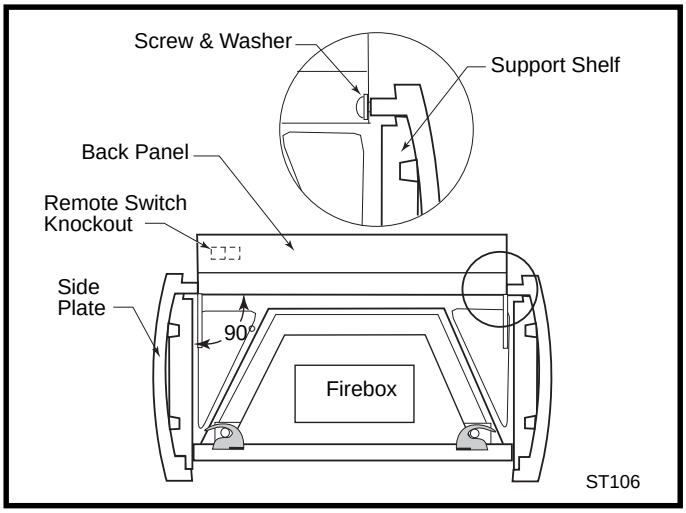


Fig. 5 The sides must be at right angles to the Back Panel in order for the firebox to fit properly.

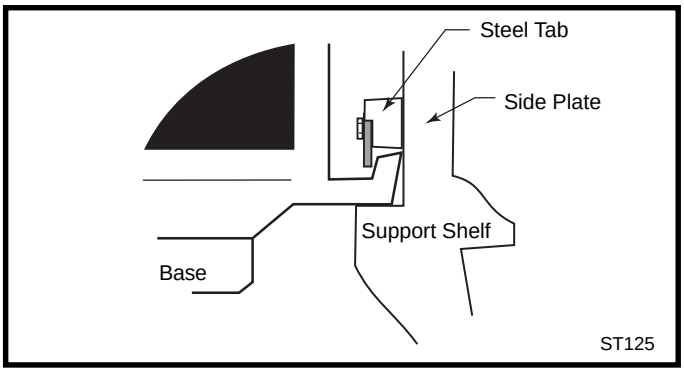


Fig. 6 Install the Firebox Assembly. Be sure steel tabs engage ribs on base of firebox.

Install Optional Fan Kit

• Attach the fan to the firebox by engaging the upper flange of the fan skirt under the lower edge of the shroud and secure the skirt with the four screws and one star washer provided. (Fig. 7, 8)

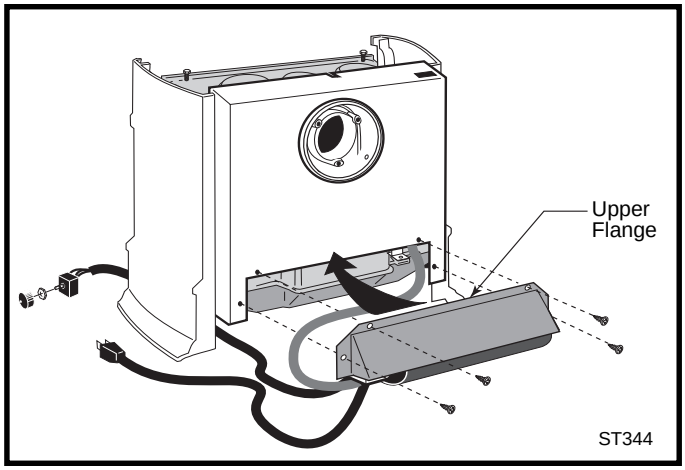


Fig. 7 Place upper flange behind lower edge of shroud.

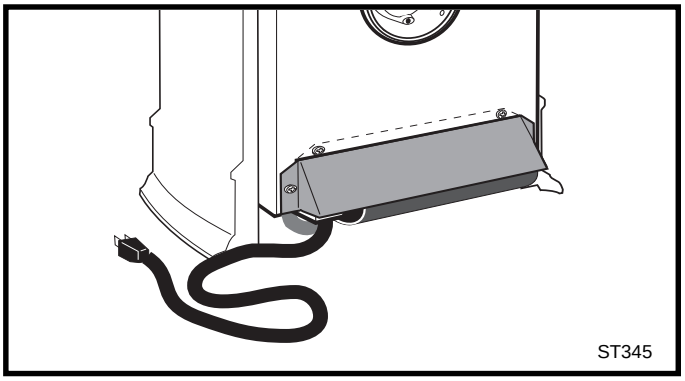


Fig. 8 Correct position of fan skirt installation.

• Feed the snapstat wire lead up between the inner and outer rear shroud panels and secure the snapstat to the upper right side of the inner shroud. (Fig. 9)
• Secure the snapstat wire harness to the shroud panel using the wire tie provided.
• Route the rheostat control switch and wire forward under the stove. Use the wire tie to secure the fan and rheostat wire harnesses together to the tubing under the bottom heat shield.

UVS27R/ Honeywell Miillivolt Valve: Install the rheostat onto the control panel at the hole to the right of the valve, as in Figure 10.

UVS27M/SIT Manual Valve: Install the rheostat onto the bracket to the left of the valve.

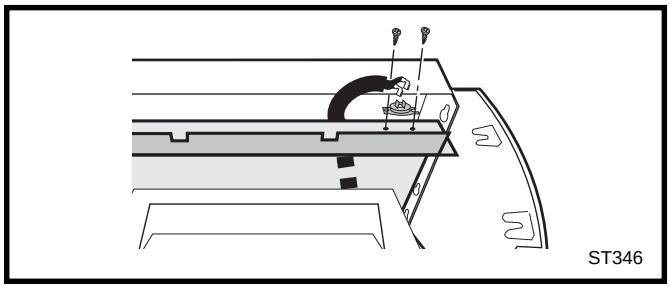


Fig. 9 Attach snapstat to inner shroud.

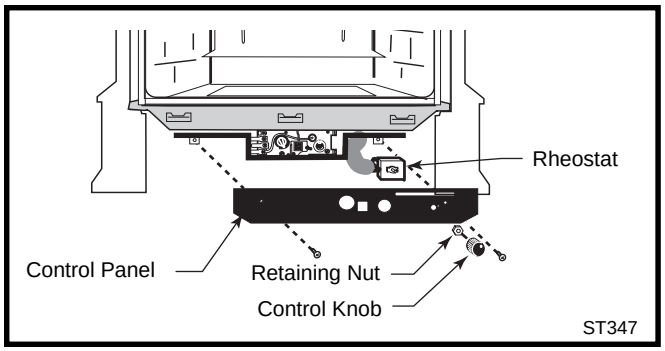


Fig. 10 Attach rheostat to control panel.

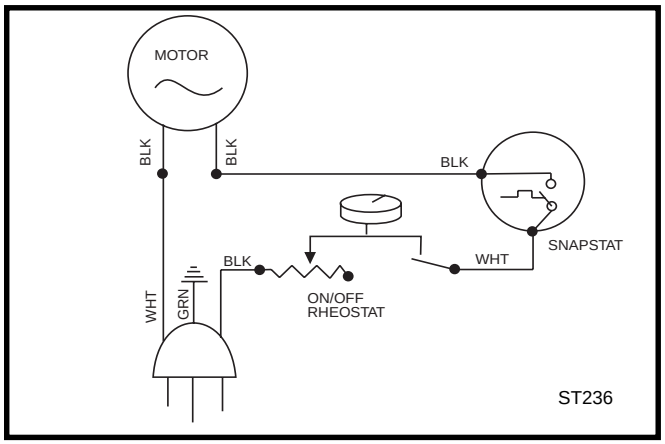


Fig. 11 Fan wiring diagram.

Install remote switch (Millivolt valve only)

• Thread wire through the electrical knockout located on either side of the fireplace. Do not cut the wire or insulation on metal edges. Ensure that the wire is protected. Run the other end to a conveniently located wall receptacle box.

• Attach the wire to the switch and install the switchinto the receptacle box. Attach the cover plate to the switch.

• Connect the remaining ends of the optional switch to the valve at Terminal 3 and the tab connector on Terminal 1. (Fig. 12)

NOTE: If any of the original wire as supplied with the appliance must be replaced, it must be replaced with a wire of at least 105°F temperature rating.

Connect the gas supply line to the flex or hard pipe from the control valve as required by local codes.

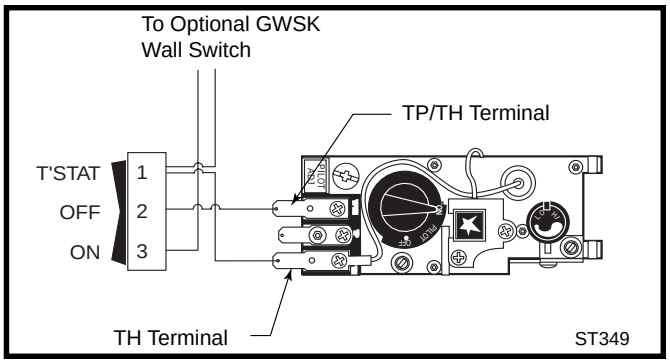


Fig. 12 Connecting wall switch to valve terminals.

Install the Log Set

• Remove the logs from their packaging, and inspect each piece for damage. **DO NOT INSTALL DAMAGED LOGS.**

• Install the rear log A, by engaging it with the pins on the sheet metal shelf at the back of the firebox. (Fig. 13)

• Install the left and right middle logs, B and C, by engaging holes on their bottoms with pins on the burner brackets. (Fig. 13)

• Press the burner assembly fully to the rear, by hand. Place the two front ember log sections, D and E, in the slot at the front of the firebox. (Fig. 14)

• Loosely sprinkle the lava rocks directly on top of the burner between the ember logs and the middle logs. Do not place any ember material behind the middle logs. (Fig. 14)

• Engage the socket in the upper right log, F, with the pin on the right middle log C, as shown in Figure 15. The back end of log F should rest on log A and touch the back of the firebox.

• Engage the socket in the bottom of upper left log, G, with the pin on the left middle log B, as shown in Figure 15. Rest the back end of log G on top of log F. **Adjust logs F and G to contact the back wall of the firebox.**

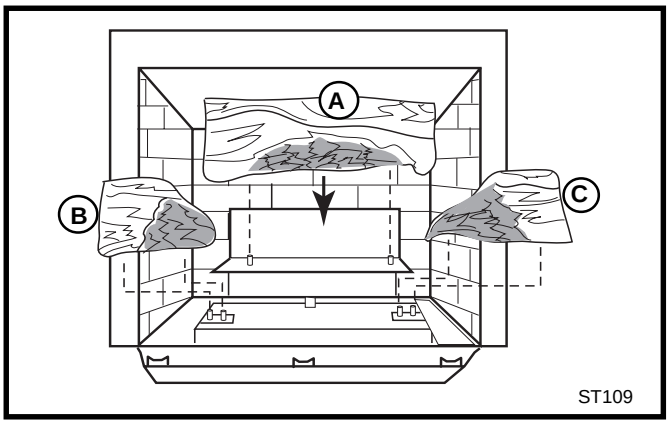


Fig. 13 Install the back, left and right logs.

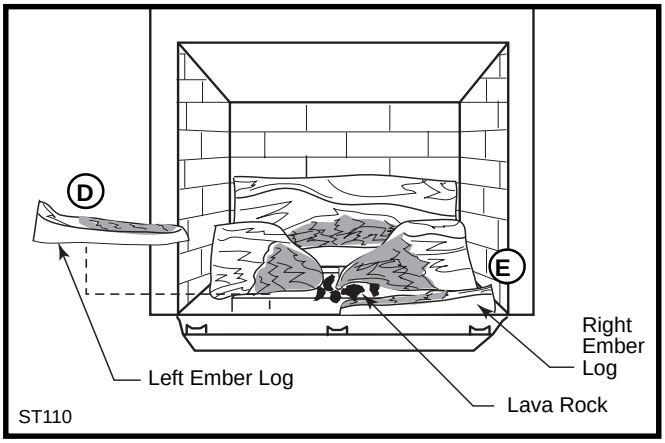


Fig. 14 Install left and right ember strips and lava rocks.

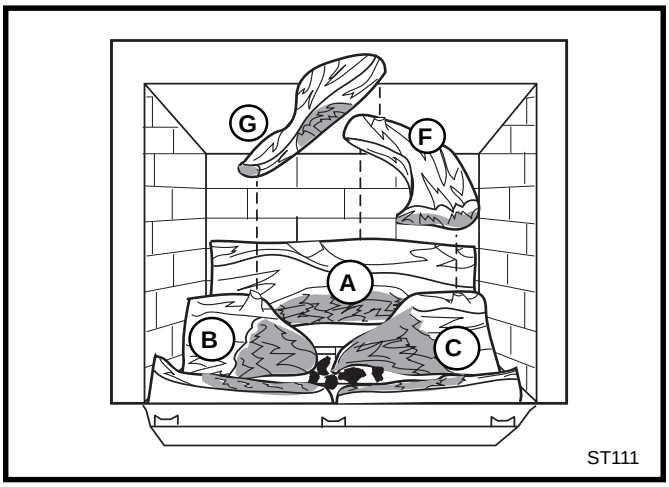


Fig. 15 Install the two top logs; engage pins on the middle logs with the sockets of the top logs.

Complete the Assembly

Replace the screen frame or glass assembly and swing the fastening cams inward to fasten the assembly in place.

Grasp the Front Plate by the window bars and lift into position engaging the two steel tabs behind the adjacent bosses in the Side Plates. (Fig. 16) Then seat the Front against the sides so that the tabs at the bottom lip engage with the notches in the stove legs.

On the Pinnacle, the Front tabs will engage behind the notched cutouts in the base of either Side Plate. (Fig. 17)

When properly installed, the bottom of the Front Plate cannot be pulled away from the sides without lifting it.

NOTE: Be sure that the Control Door can swing out. It should close against the steel tab stop.

If installing the optional warming shelf, you may find it most easy to attach it to the Top Plate before placing the Top in position on the stove. Follow the instructions supplied with the kit.

Tilt the Top Plate to engage its rear rib in front of the Back Panel, then carefully lower it onto the sides. (Fig. 18) The upper edge of the side plates should seat into the channel in the underside of the Top.

Lay the mesh and top grille in place.

This completes assembly of the Stardance Freestanding and Pinnacle Hearthmount shells.

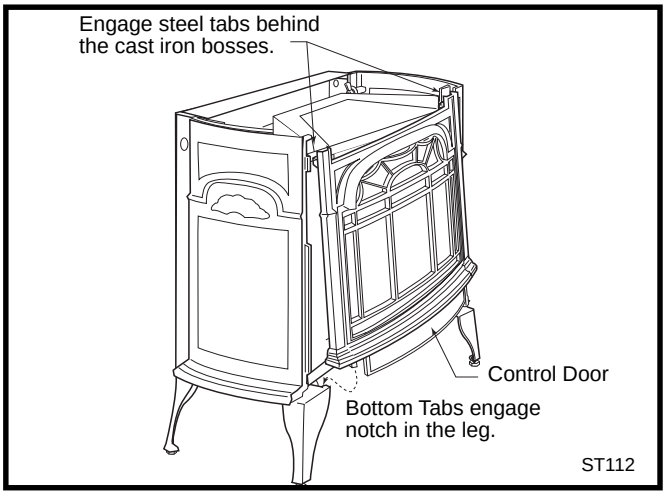


Fig. 16 Install the Front Plate. Your Front may look different from that depicted.

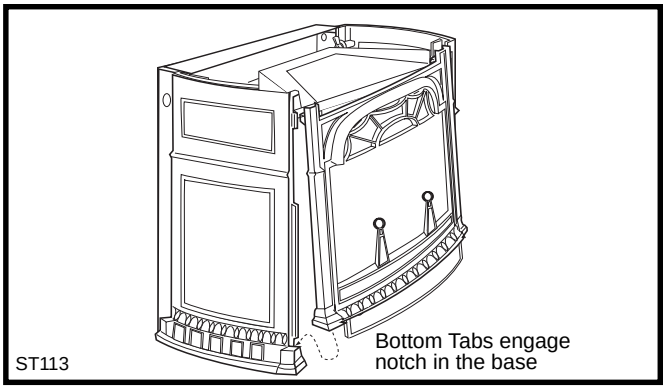


Fig. 17 Engage the Hearthmount Front with the notch in the base of each side plate.

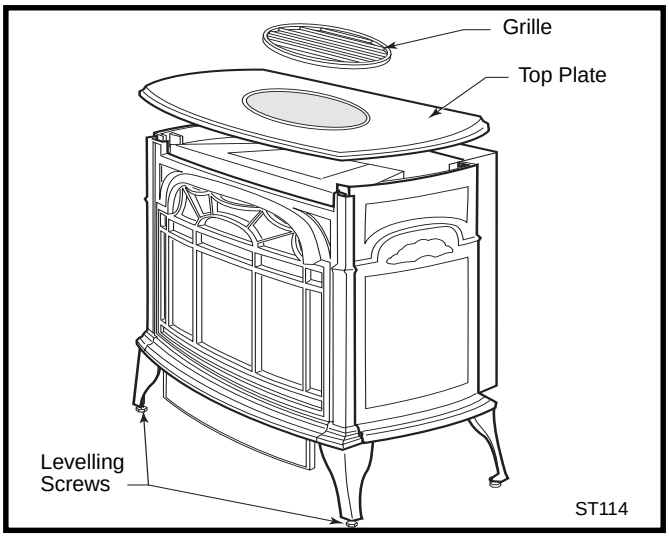


Fig. 18 Install the Top Plate and Grille.

Operation

Your First Fire

Read these instructions carefully and familiarize yourself with the burner controls of this heater.

The UVS27R uses a Honeywell control valve that allows thermostatic, on/off switch regulation and has a separate Piezo ignition button. Figures 19-21 illustrate the operating positions for the Honeywell valve.

The UVS27M is equipped with an SIT control valve for manual use only. Figures 22-24 illustrate the operating positions for the manual valve.

Locate the Pilot assembly to the right behind the burner. (Fig. 25) Follow the lighting instructions on page 15 exactly.

During the first fire, it is not unusual to smell some odor associated with new logs, paint and metal being heated. Odors should dissipate within a few hours or so, however, you can open a window to provide plenty of fresh air to alleviate this condition.

Pilot and Burner Inspection

Each time you light your heater, check that the pilot flame and burner flame pattern are as shown in Figures 26 and 27. If flame patterns are incorrect, turn the heater off. See *Troubleshooting*, page 17.

Do not operate the heater until the pilot flame is correct.

Follow regular maintenance procedures as described on page 16.

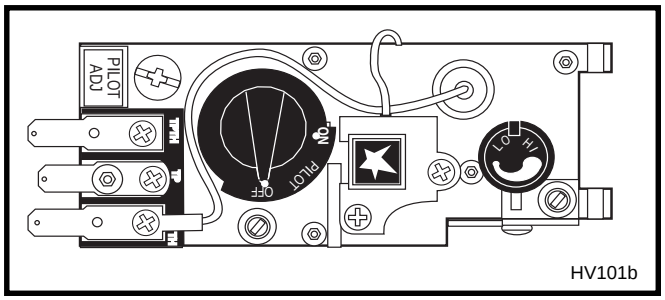


Fig. 19 UVS27R/Honeywell Control Valve OFF.

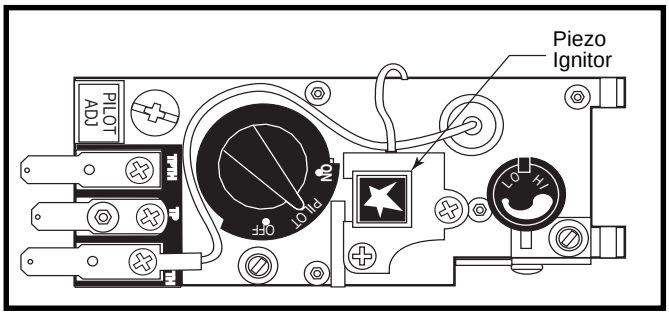


Fig. 20 UVS27R/Honeywell Control Valve in Pilot position.

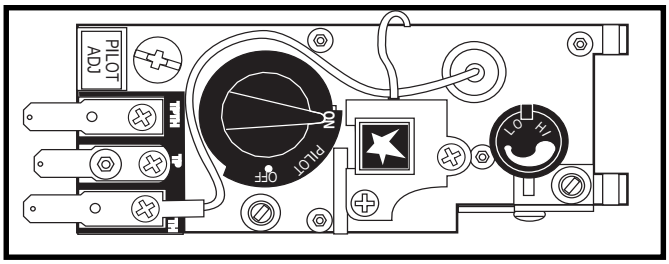


Fig. 21 UVS27R/Honeywell Control Valve in ON position. Use this position for remote switch operation.

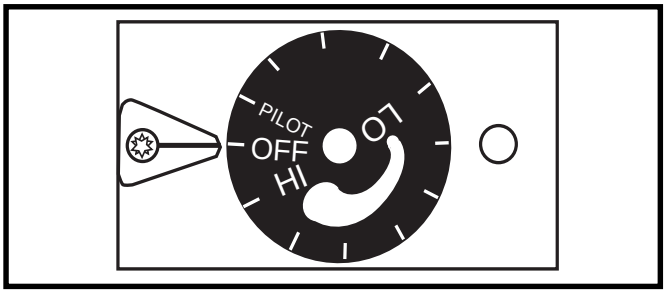


Fig. 22 UVS27M/SIT Control Valve OFF.

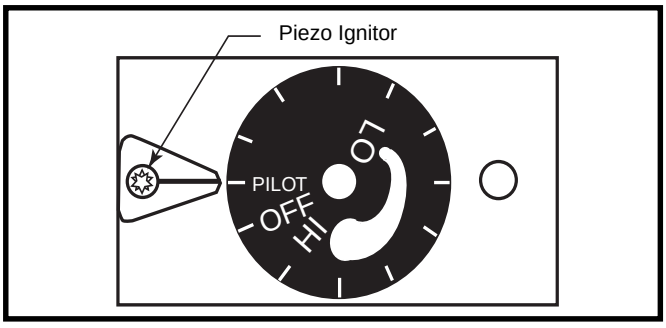


Fig. 23 UVS27M/ SIT Control Valve in Pilot position.

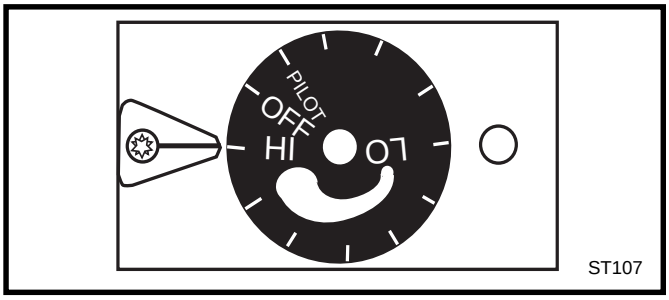


Fig. 24 UVS27M/SIT Control Valve in ON position.

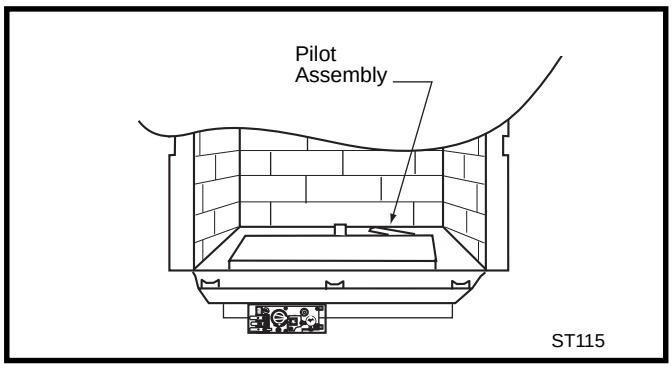


Fig. 25 Pilot Assembly Location

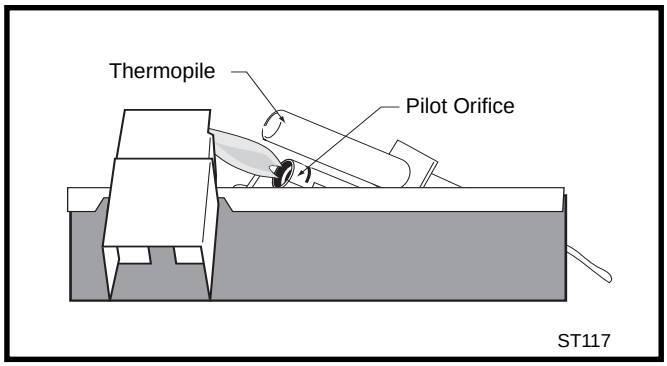


Fig. 27 UVS27RN: Correct Pilot Flame.

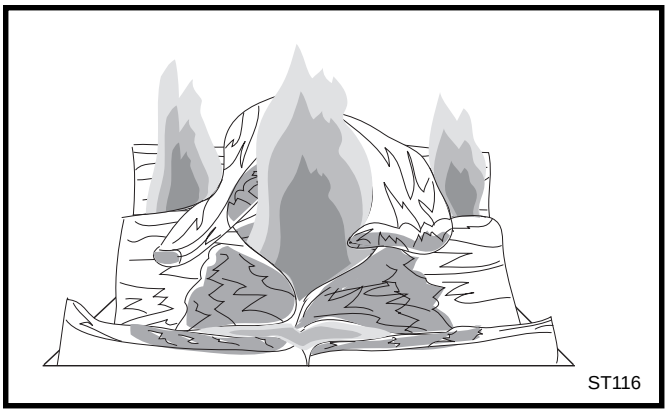


Fig. 26 Proper flame pattern with Regulator in HIGH position.

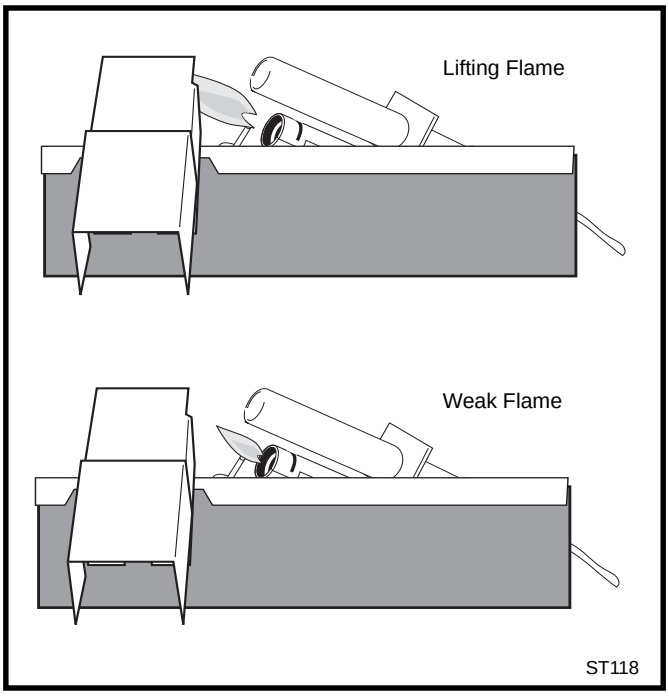


Fig. 28 Examples of Incorrect Pilot Flame.

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

A. This appliance has a pilot. When lighting the pilot, follow these instructions exactly.

B. BEFORE OPERATING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

- **Do not try to light any gas appliance.**
- **Do not touch any electric switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

C. Use only your hand to turn the gas control knob. Never use tools. If the knob will not turn by hand, don't try to repair it. Call a qualified service technician. Force or attempted repair may result in a fire or explosion.

D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

LIGHTING INSTRUCTIONS

1. **STOP! Read the safety information above on this panel.**
2. **If applicable, turn thermostat to lowest setting or set remote switch to OFF position.**
3. **Push in gas control knob slightly and turn clockwise ↷ to "OFF" (Fig. 19 or 22)**

NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

4. **Wait five (5) minutes to clear out any gas. If you then smell gas, STOP! Follow "B" in the safety information above on this panel. If you do not smell gas, go to the next step.**
5. **HONEYWELL: Turn knob on gas control counterclockwise ↶ to "PILOT". Push in control knob all the way and hold in. Immediately light the pilot by pushing the button located directly to the right of the pilot knob. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 3 through 5. (Fig. 20)**

5. **SIT (Manual Valve): Turn control knob counterclockwise ↶ to "PILOT". Push in control knob all the way and hold in. Immediately light the pilot by pushing the ignitor button loacted to the left. Continue to hold the control knob in for about one (1) minute after pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 3 through 5. (Fig. 23)**

6. **• If knob does not pop up when released, stop and immediately call your service technician or gas supplier.**

   • If the pilot will not stay lit after several tries, turn the gas control knob clockwise ↷ to "OFF:" and call your service technician or gas supplier.

7. **HONEYWELL: Turn gas control knob counterclockwise ↶ to "ON". (Fig. 21)**
8. **SIT (Manual valve): Turn gas control knob counterclockwise ↶ to anywhere between low and high as you desire. (Fig. 24)**

TO TURN OFF GAS TO APPLIANCE

1. **Turn off all electric power to the appliance if service is to be performed.**
2. **Push in gas control knob slightly and turn clockwise ↷ to "OFF".**

NOTE: Knob cannot be turned from "PILOT" to "OFF" unless knob is pushed in slightly. Do not force.

Maintenance

Your Vent Free Heater will provide years of service with minimal upkeep. The following procedures will help ensure that your stove continues to perform safely and efficiently.

Firebox Cleaning and Inspection

Cleanliness is critical to correct operation of the heater. The log set, burner, valve controls and air circulation areas must all be kept free of dust and unobstructed by debris. Inspect these areas before each use and clean whenever accumulation is evident. Follow the simple procedure outlined below.

Frequent cleaning may be necessary in living environments subject to excessive carpet lint or pet hair. For example, if you live with a dog that sheds continuously, you will need to inspect the burner area frequently and clean it as often as the accumulation requires. In extreme conditions, it may be necessary to clean the burner and log set monthly or bi-weekly.

This appliance should be inspected and thoroughly cleaned annually by a qualified gas technician.

Cleaning Procedure

1. Turn the burner OFF and let the heater cool completely before cleaning.
2. *Freestanding or Hearthmount:* Lift the Front Plate up and then swing the bottom out to disengage from heater shell. (Fig. 16)
3. Remove the safety screen by swinging the cam latches on the frame outward. (Fig. 29)
4. Carefully inspect the log set for damage. Contact your local dealer if any damage is evident. **DO NOT OPERATE THE HEATER WITH A DAMAGED LOG SET.**
5. Use a soft-bristled brush vacuum attachment to sweep dust or debris from the log set, pilot and burner. Use care as the log set is fragile.
6. Replace the screen and Front Plate. **DO NOT OPERATE THE HEATER WITH THE SAFETY SCREEN REMOVED.**

Care of Cast Iron

An occasional dusting with a dry rag will help keep the *painted surfaces* looking new.

Porcelain enamel surfaces shoul be cleaned with a soft damp cloth. Do not use abrasive cleaning agents. If necessary, use only a cleaning agent formulated specifically for use on porcelain enamel surfaces.

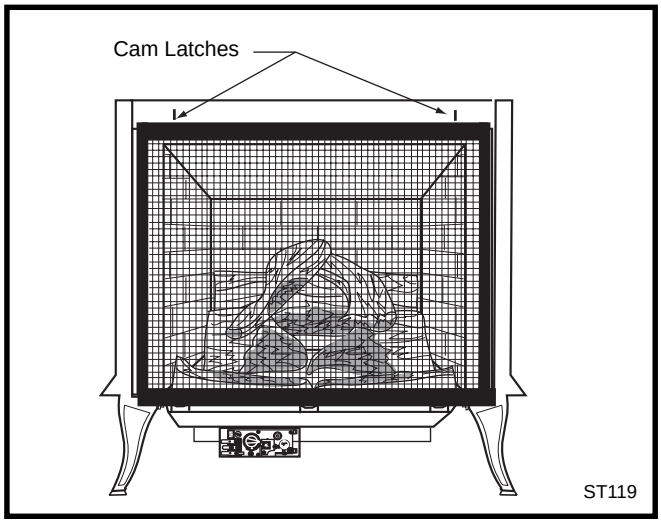


Fig. 29 Swing Cam Latch to free screen frame and remove away from unit.

WARNING

DUST AND DEBRIS ACCUMULATION CAN RESULT IN POOR PERFORMANCE. INSPECT THE VALVE COMPARTMENT, BURNER PARTS AND LOG SET FREQUENTLY AND CLEAN THESE PARTS MONTHLY OR AS OFTEN AS ACCUMULATION WARRANTS.

Troubleshooting

WARNING

TURN OFF HEATER AND ALLOW TO COOL COMPLETELY BEFORE SERVICING.

Follow these procedures in the order presented.

CONDITION	POSSIBLE CAUSE	SOLUTION
No spark at pilot when Ignitor is operated.	1. Ignition Electrode is disconnected from ignition wire, broken or incorrectly positioned. 2. Ignitor wire is broken. 3. Bad Piezo Ignitor.	1. Inspect and re-connect, replace or repair as necessary. 2. Replace wire. 3. Replace Piezo Ignitor.
The Ignitor Electrode sparks, but Pilot does not light.	1. Gas supply is turned off or supply line shut-off valve is closed. 2. Control Knob is not in PILOT position. 3. Control Knob not pressed in while in PILOT position. 4. Air present in gas lines. 5. Inlet supply pressure is not within correct settings. 6. Other conditions that should be identified only by a qualified gas technician.	1. Turn on gas supply or open supply line shut-off valve. 2. Turn Control Knob to PILOT. 3. Press Control Knob in while in the PILOT position. 4. Continue holding in Control Knob and repeat ignition procedure until air is bled from the lines. 5. Call local gas supplier. Adjust inlet supply pressure to specification: NG; 5” W.C.-8”W.C.(5”w.c.-7”w.c. at elevations over 8000 ft.). LP; 11” w.c.-12”w.c. 6. Call qualified gas technician.

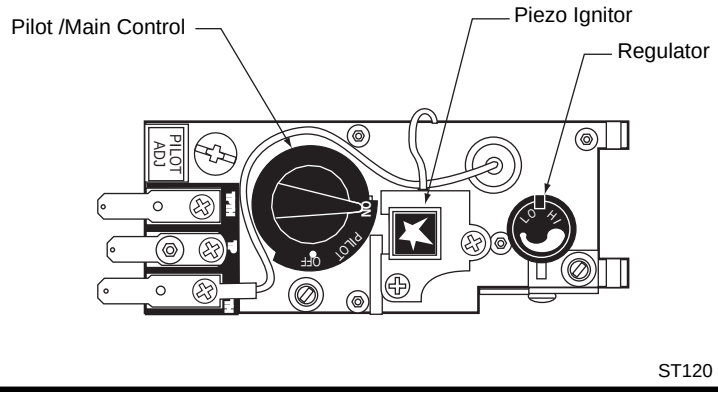


Fig. 30 UVS27R/Honeywell Control Valve Assembly.

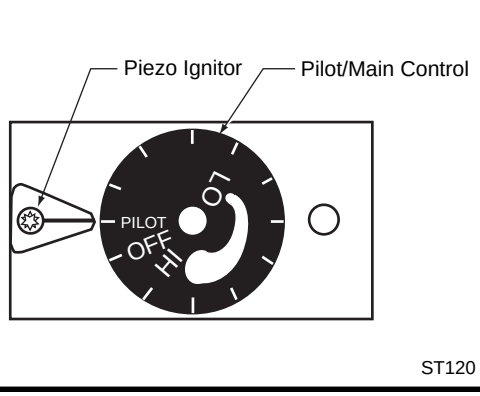


Fig. 31 UVS27M/SIT Control Valve Assembly

Troubleshooting *cont'd.*

CONDITION	POSSIBLE CAUSE	SOLUTION
Pilot lights but flame goes out when Control Knob is released.	1. Control Knob not fully depressed or held in long enough.	1. Depress Control Knob fully and hold in for a full 30 seconds.
	2. Gas supply line shut-off valve is not fully open.	2. Fully open gas supply line shut-off valve.
	3. Thermocouple connection is loose at the Control Valve.	3. Inspect and tighten securely.
	4. Pilot flame does not touch the Thermocouple. (Figs. 31, 32) This can be caused by: A) Incorrect gas pressure, and/or B) other conditions that should be identified only by a qualified service technician.	4. A) Contact the local gas company. Inlet supply pressure should be 5" w.c.-8"w.c. for NG (5"w.c.-7"w.c. over 8000 ft. elevation) and 11"w.c.-12"w.c. for LP. Adjust as necessary. B)Call local gas service technician.
	5. Thermocouple is damaged.	5. Call local gas service technician.
	6. Control Valve is damaged.	6. Call local gas service technician.
Pilot lights but Main Burner does not.	1. Gas supply line shut-off valve is not fully open.	1. Fully open gas supply line shut-off valve.
	2. Foreign material is blocking Burner ports.	2. Insptect and clear debris away from Burner ports.
	3. Main Burner orifice is clogged.	3. Call local gas service technician.
	4. Thermostat or remote switch not activated on UVS27R.	4. Set thermostat to higher temperature or check remote switch.
	5. Bad Thermocouple.	5. Call local gas service technician.
Main Burner shuts off and Pilot flame goes out while in operation.	1. Insufficient fresh air.	1. Determine that adequate ventilation exists to provide sufficient fresh air. Open a window or provide additional ventilation. (See Fresh Air Requirements, Pages 6-7)
	2. Incorrect inlet supply pressure.	2. Contact the local gas company. Adjust inlet supply pressure to specification: NG; 5"w.c.-8"w.c.(5"w.c.-7"w.c. at elevations over 8000 ft.) LP; 11"w.c.-12"w.c.

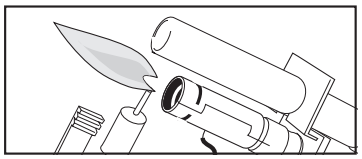


Fig. 32 Pilot flame is lifting.

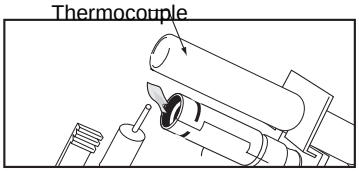


Fig. 33 Pilot flame is weak - does not touch Thermocouple.

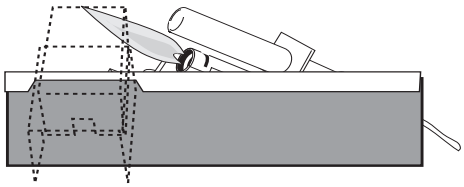


Fig. 34 Correct LP Pilot Flame - UVS27M shown

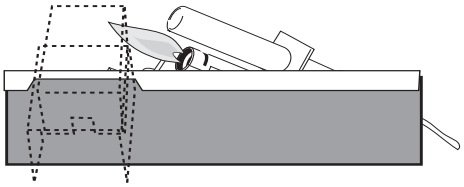


Fig. 35 Correct NG Pilot Flame - UVS27R shown.

WARNING

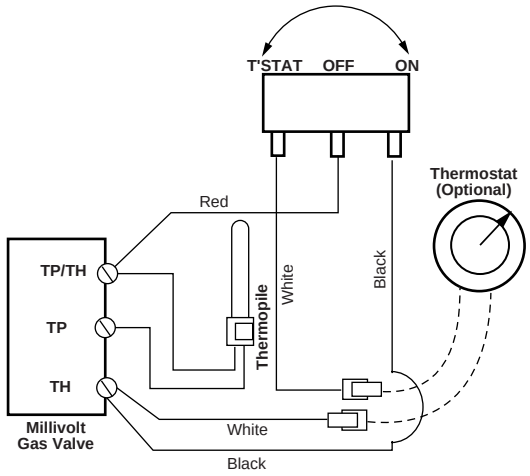
IF YOU SMELL GAS:

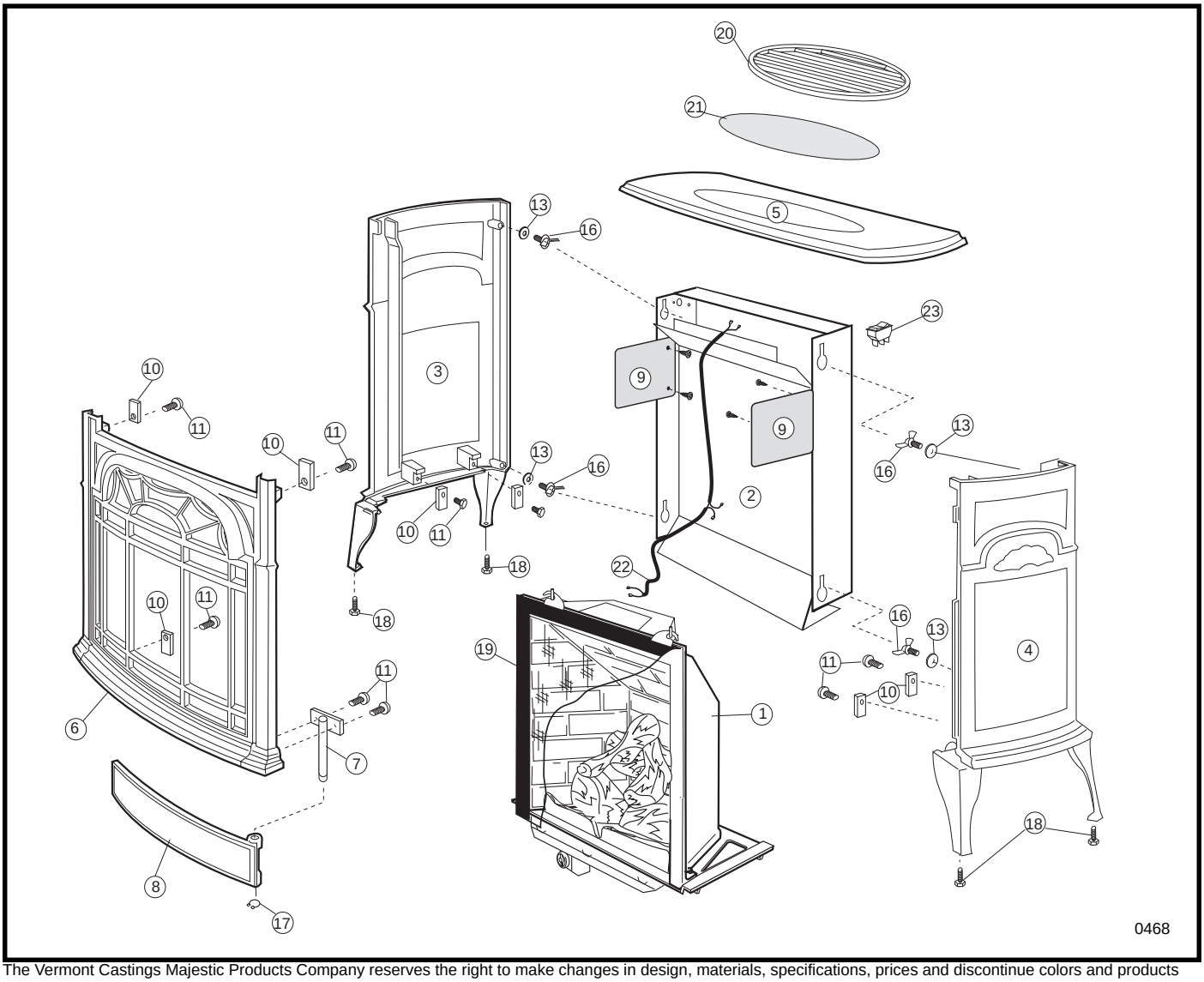
- **SHUT OFF GAS SUPPLY**
- **DO NOT TRY TO LIGHT ANY APPLIANCE.**
- **DO NOT TOUCH ANY ELECTRICAL SWITCH; DO NOT USE ANY PHONE IN YOUR BUILDING.**
- **IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE. FOLLOW THE GAS SUPPLIER'S INSTRUCTIONS.**
- **IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE DEPARTMENT.**

Odor During Operation

Neither natural gas nor propane gas give off an odor when burned. The nature of a vent free combustion system, however, is such that odors may occasionally be produced during heater operation when impurities exist in the immediate area. Cleaning solutions, paint, solvents, cigarette smoke, candles, adhesives, new carpet or textiles, etc., all can create fumes. These fumes may mix with combustion air and can create odor. Such odors will disappear over time, however, the condition can be alleviated by opening a window or otherwise providing additional ventilation to the area.

UVS27R / Wiring Diagram, Millivolt Valve



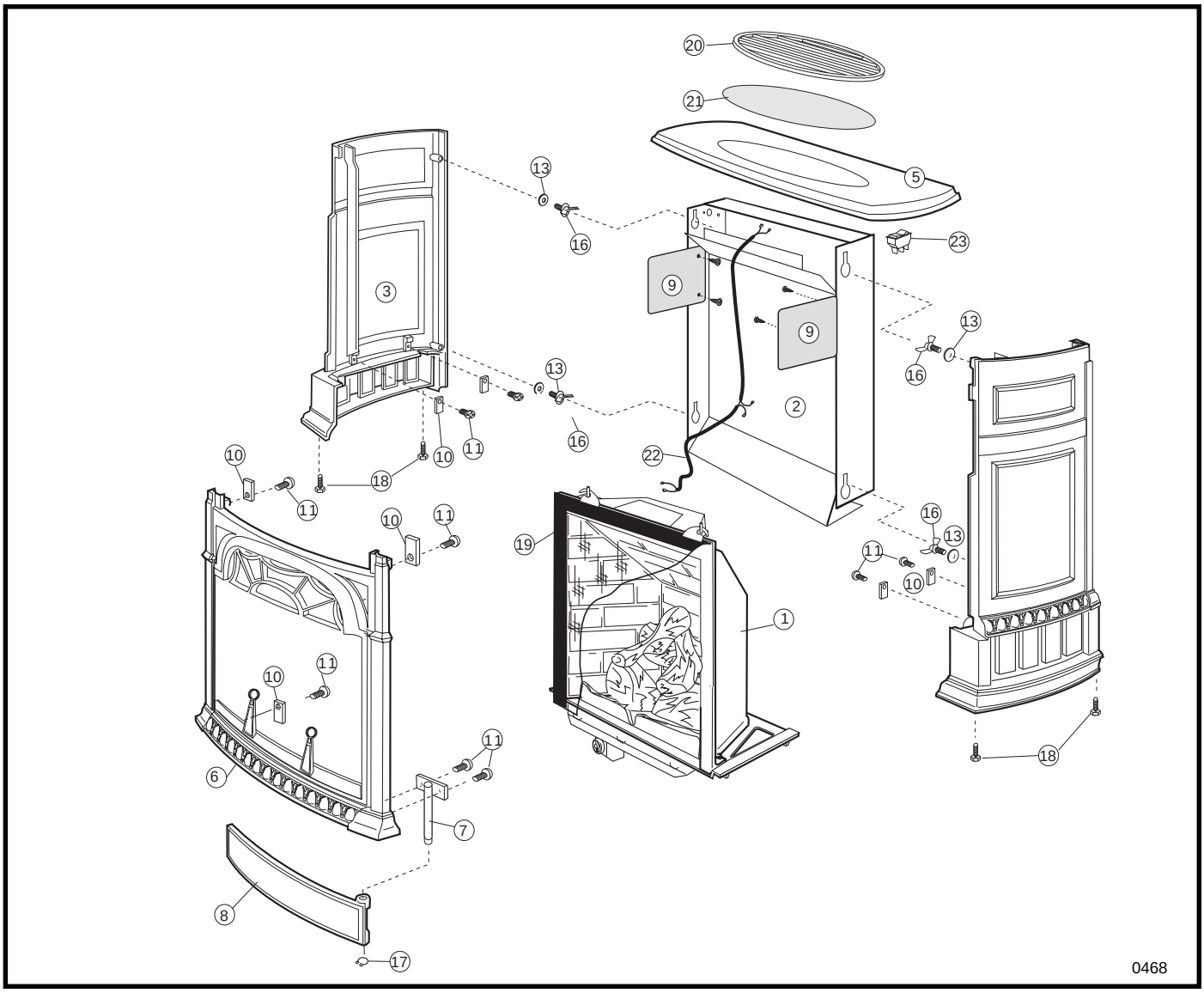


The Vermont Castings Majestic Products Company reserves the right to make changes in design, materials, specifications, prices and discontinue colors and products at any time, without notice.

Stardance Freestanding Shell

Item/Model Number	Part Number
1. UVS27R Firebox Assembly / NG	0002797
UVS27R Firebox Assembly / LP	0002798
UVS27M Firebox Assembly / NG	0002795
UVS27M Firebox Assembly / LP	0002796
2. Rear Shroud Assembly	20001007
3. End, Left	1301240
4. End, Right	1301239
5. Top	30000361
6. Front	1301084
7. Hinge, Control Door	1601670
8. Control Door	1301087
9. Heatshield	1409065

Item/Model Number	Part Number
10. Tab, Steel	1601488
11. 1/4-20x3/8” Phillips Screw	1200993
13. Washer, Wingscrew	1202470
16. 1/4-20 Wingscrew	1201621
17. Snap Ring	1201987
18. Levelling Bolt	1201745
19. Screen Frame	20000996
20. Grille	30000393
21. Mesh	30000508
22. Wire Harness	1601913
23. ON/OFF Switch	1601597



The Vermont Castings Majestic Products Company reserves the right to make changes in design, materials, specifications, prices and discontinue colors and products at any time, without notice.

Pinnacle Hearthmount Shell

Item/Model Number	Part Number
1. UVS27R Firebox Assembly / NG	0002797
UVS27R Firebox Assembly / LP	0002798
UVS27M Firebox Assembly / NG	0002795
UVS27M Firebox Assembly / LP	0002796
2. Rear Shroud Assembly	20000894
3. End, Left	30000199
4. End, Right	30000200
5. Top	30000361
6. Front	1301105
7. Hinge, Control Door	1601670
8. Control Door	1301087
9. Heatshield	1409065

Item/Model Number	Part Number
10. Tab, Steel	1601488
11. 1/4-20x3/8” Phillips Screw	1200993
13. Washer, Wingscrew	1202470
16. 1/4-20 Wingscrew	1201621
17. Snap Ring	1201987
18. Levelling Bolt	1201745
19. Screen Frame	20000996
20. Grille	30000393
21. Mesh	30000508
22. Wire Harness	1601913
23. ON/OFF Switch	1601597

Warranty

Limited Three Year Warranty

The Vermont Castings, Majestic Products Company (Manufacturer) warrants that this Vent Free Gas Heater, Model UVS27, will be free of defects in material and workmanship for a period of three years from the date you receive it, except that the ceramic logs shall be warranted for one year as described below.

The Manufacturer will repair or replace, at its option, any part found to be defective upon inspection by an Authorized Dealer. The customer must return the defective part or the stove, with shipping prepaid, to the Authorized Dealer or pay for any Authorized Dealer in-home travel fees or service charges for in-home repair work. It is the dealer's option whether the repair work will be done in the customer's home or in the dealer's shop. If, upon inspection, the damage is found to be the fault of the Manufacturer, repairs will be authorized at no charge to the customer for parts and/or labor.

Any Vent Free Gas Heater or part thereof that is repaired or replaced during the limited warranty period will be warranted for a period not to exceed the remaining terms of the original limited warranty or six (6) months, whichever is longer.

Limited One Year Warranty

The following parts of the Vent Free Gas Heater are warranted to be free of defects in material and workmanship for a period of one year from the date you receive it. These parts are the ceramic logs. Any of the logs found to be defective will be repaired or replaced at no charge, upon the return of said part to an Authorized Dealer with postage prepaid.

Exclusion and Limitations

1. This warranty is transferable; however, proof of original purchase is required.

2. The Manufacturer offers no warranty on chipping of enamel surfaces. Inspect your Vent Free Gas Heater prior to accepting it for any damage to the enamel.

3. This warranty does not cover misuse of the Vent Free Gas Heater as described in the Owner's Guide, nor does it cover a Vent Free Gas Heater that has been modified unless authorized by a Manufacturer's representative in writing.

4. This warranty does not cover a stove repaired by someone other than either an Authorized Dealer or an authorized, qualified gas agency.

5. Damage to the unit while in transit is not covered by this warranty but is subject to claim against the common carrier. Contact the Authorized Dealer from whom you purchased your Vent Free Gas Heater. (Do not operate the Vent Free Gas Heater as this may negate the ability to process the claim with the carrier.)

6. Claims are not valid where the installation does not conform to local building and fire codes or, in their absence, to the recommendations in the Owner's Guide.

7. The Manufacturer shall have no obligation to enhance or update any unit once manufactured.

IN NO EVENT SHALL THE MANUFACTURER BE LIABLE FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES. ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. THIS WARRANTY SUPERSEDES ALL OTHER ORAL OR WRITTEN WARRANTIES.

Some states do not allow the exclusion or limitations of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific rights and you may have other rights which vary form state to state.

8. The salt air environment of coastal areas, or any high-humidity environment, can be corrosive to the porcelain enamel finish. These conditions can promote rusting of the cast iron beneath the porcelain enamel finish, which will cause the enamel to flake off. This warranty does not cover damage to the finish caused by a salt air or high-humidity environment.

How to Obtain Service

If a defect is noted within the warranty period, the customer should contact an Authorized Dealer with the following information:

1. Name, address and telephone number of purchaser.
2. Date of purchase.
3. Serial number from the label on the back of the stove.
4. Nature of the defect or damage.
5. Any relevant information or circumstances, i.e., installation, mode of operation when defect was noted.

A warranty claim process will then begin. The Manufacturer reserves the right to withhold final approval of a warranty claim pending a visual inspection of the defect by authorized representatives.

INSTALLER:
Please record the following information for future reference.

Appliance Serial No. _____

Appliance Type: NG _____ LP _____

Inlet Supply Pressure: _____

Manifold Pressure: _____

Dealer: _____
_____
_____

Phone: _____

Installer: _____
_____
_____

Phone: _____

Date Installed: _____

The Vermont Castings
Majestic Products Company

410 Admiral Blvd. • Mississauga, Ontario, Canada L5T 2N6 • 905-670-7885
www.majesticproducts.com • www.vermontcastings.com

© The Vermont Castings Majestic Products Company